

System and Method for Analyzing Buffer Usage

Abstract of the Disclosure

A system and method is provided for enabling analysis of memory buffer usage. Initially, each of the buffer using system components are assigned a unique ownership tag. Next, upon buffer allocation to a particular component, the allocated buffer is tagged with the calling component's ownership tag. Once tagged, the system operates conventionally, with the calling component utilizing the buffer to perform any task it has been assigned. Following completion of its tasks(s), the calling component calls a buffer checker application which searches the buffer pool for the calling component's ownership tag. Next, upon search completion, the calling component determines whether the buffer checker has identified the calling component's ownership tag in its search. If so, a potential buffer leak is identified and a log of such occurrences is created. A system developer or administrator then periodically reviews the log for potential buffer leakage occurrences to assist in subsequent debugging and analysis.

Figures

Figure 1: A vertical strip of text, likely a page number or identifier, located on the left margin of the page.